ward.03

ALCON CTL TESTING PRIVATE LIMITED
CIN. : U74900KA2010PTC053574

Ref: ACTPL/RDM 161206/2016

Date: 03/10/2016

TEST REPORT

Name of Client : Sri. A. Chennareddy, Bengaluru.
Project* : Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Physical Properties of Coarse Aggregate
Period of test : 30/09/2016 to 03/10/2016
Sample Received on : 30/09/2016
Condition of the Sample at the time of receiving : Dry
Samples Supplied to Lab by : Sri. A. Chennareddy, Bengaluru.

Description	40mm	20mm
Weight of Saturated Aggregate suspended in water with basket, W1 g =	2985	2990
Weight of basket suspended in water, W2 g =	1785	1770
Weight of Saturated Aggregate in water , Ws g = (W1-W2) =	1200	1220
Weight of Saturated surface dry Aggregate in air W3 g =	1978	1998
Weight of oven dried Aggregate W4 g =	1970	1990
Weight of water equal to the volume of aggregate, (W3-Ws) g =	770	770
Specific Gravity, (W4/(W3-Ws) =	**2.53**	**2.56**
Water Absorption, ((W3-W4)/W4) * 100 =	**0.41**	**0.40**

Sl No.	Description	Permissible Limits
1	Specific Gravity	2.5 to 3.0
2	Water Absorption	Max 2%

Remarks:

Satisfy the Limits ☑
Does not satisfy the limits

As Furnished by the Customer

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For ALCON CTL TESTING PVT. LTD.

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Ground Floor. # 35, 4th Main, 4th Stage, Next to Trinity Motors, Indl. Town, Basaveshwar Nagar, Bangalore - 560 079 Karnataka, India
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ALCON CTL TESTING PRIVATE LIMITED
CIN. : U74900KA2010PTC053574

Ref: ACTPL/RDM 161206/2016

Date: 03/10/2016

TEST REPORT

Name of Client	: Sri. A. Chennareddy, Bengaluru.
Project*	: Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division.
Customer's reference	: RDM 161206
Description of Test	: Physical Properties of Dust
Period of test	: 30/09/2016 to 03/10/2016
Sample Received on	: 30/09/2016
Condition of the Sample at the time of receiving	: Wet
Samples Supplied to Lab by	: Sri. A. Chennareddy, Bengaluru.

Description	Dust
Weight of empty bottle with stopper, W1 g =	497.00
Weight of bottle + soil sample with stopper, W2 g =	996.5
Weight of bottle + sample + water with sample W3 g =	1501.00
Weight of bottle + water with stopper W4g =	1191.00
Specific Gravity = (W2-W1)/((W2-W1)- (W3-W4))	2.69

Sl No.	Description	Permissible Limits
1	Specific Gravity	2.5 to 3.0

Remarks:

Satisfy the Limits ☑

Does not satisfy the limits

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ALCON CTL TESTING PRIVATE LIMITED
CIN. : U74900KA2010PTC053574

Ref: ACTPL/RDM 160303/2016

Date: 03/10/2016

TEST REPORT

Name of Client	: Sri. A. Chennareddy, Bengaluru.
Project*	: Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division.
Customer's reference	: RDM 161206
Description of Test	: Physical Properties of Cement
Period of test	: 30/09/2016 to 03/10/2016
Sample Received on	: 30/09/2016
Condition of the Sample at the time of receiving	: Dry
Samples Supplied to Lab by	: Sri. A. Chennareddy, Bengaluru.

Description	Cement
Weight of empty flask, W1 g =	100.00
Weight of empty flask + Cement, W2 g =	169.00
Weight of flask + Cement + Kerosene, W3 g =	220.0
Weight of flask + Kerosene W4g =	180.00
Specific Gravity = (W2-W1)/((W2-W1)- (W3-W4)) X 0.79	3.01

Sl No.	Description	Permissible Limits
1	Specific Gravity	3.15

Remarks:

Satisfy the Limits ☑

Does not satisfy the limits

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Ref: ACTPL/RDM 161206/2016

Date: 03/10/2016

TEST REPORT

Name of Client : Sri. A. Chennareddy, Bengaluru.
Project* : Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Physical Properties of Coarse Aggregate (40 mm Down)
Period of test : 30/09/2016 to 03/10/2016
Sample Received on : 30/09/2016
Condition of the Sample at the time of receiving : Dry
Samples Supplied to Lab by : Sri. A. Chennareddy, Bengaluru.

Sl No.	Details	TEST-1	TEST-2	TEST-3
1	Total weight of aggregates, W1 g	458.00	437.00	432.00
2	Weight of aggregate passing 2.36mm sieve, W2 g	72.34	69.32	67.12
3	Aggregate Impact Value %	15.79	15.86	15.53

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

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Ref: ACTPL/RDM 161206/2016

Date: 03/10/2016

TEST REPORT

Name of Client	: Sri. A. Chennareddy, Bengaluru.
Project*	: Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division.
Customer's reference	: RDM 161206
Description of Test	: Physical Properties of Coarse Aggregate (20 mm Down)
Period of test	: 30/09/2016 to 03/10/2016
Sample Received on	: 30/09/2016
Condition of the Sample at the time of receiving	: Dry
Samples Supplied to Lab by	: Sri. A. Chennareddy, Bengaluru.

Sl No.	Details	TEST-1	TEST-2	TEST-3
1	Total weight of aggregates, W1 g	392.00	421.00	432.00
2	Weight of aggregate passing 2.36mm sieve, W2 g	58.93	68.00	59.63
3	Aggregate Impact Value %	15.03	16.15	13.80

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

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TEST REPORT

Name of Client : Sri. A. Chennareddy, Bengaluru.
Project* : Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Physical Properties of Coarse Aggregate
Period of test : 30/09/2016 to 03/10/2016
Sample Received on : 30/09/2016
Condition of the Sample at the time of receiving : Dry
Samples Supplied to Lab by : Sri. A. Chennareddy, Bengaluru.

Sl No.	Details	20 mm Down			12 mm Down		
		TEST-1	TEST-2	TEST-3	TEST-4	TEST-5	TEST-5
1	Total weight of aggregates, W1 g	2713.00	2874.00	2865.00	2874.0	2789.0	2789.0
2	Weight of aggregate passing 2.36mm sieve, W2 g	1100.50	1203.5	1189.0	1088.0	1098.2	1098.2
3	Aggregate Crushing Value %	40.54	41.87	41.45	37.85	39.06	39.06

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

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Date: 03/10/2016

TEST REPORT

Name of Client : Sri. A. Chennareddy, Bengaluru
Project* : Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Physical Properties of Coarse Aggregate (40mm Down)
Period of test : 30/09/2016 to 03/10/2016
Sample Received on : 30/09/2016
Condition of the Sample at the time of receiving : Dry
Samples Supplied to Lab by : Sri. A. Chennareddy, Bengaluru

Size of Aggregates			Flakiness Index		Elongation Index	
Passing through IS Sieve (mm)	Retained on Is Sieve (mm)	Weight of aggregates retained on each sieve (gm)	Thickness Gauge, size (mm)	Weight of aggregates in each fraction passing through thickness gauge (mm)	Length Gauge, size (mm)	Weight of aggregates in each fraction retained on gauge (mm)
63	50	--	33.90	0.00	--	--
50	40	--	27.00	0.00	81.00	--
40	31.5	--	21.50	0.00	64.40	--
31.5	25	2500.0	16.95	420	--	--
25	20	2421.0	13.50	325	40.50	178.0
20	16	1800.0	10.80	412	32.40	98.0
16	12.5	1207.0	8.55	301	25.60	21.0
12.5	10	801.0	6.75	129	20.20	10
10	6.3	201.0	4.89	51	14.70	--
		W1 = 8930.00	A=1638.0.00		B=307.00	

Flakiness Index = 18.3%

Elongation Index=3.40%

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CIN. : U74900KA2010PTC053574

Ref: ACTPL/RDM 160303/2016

Date: 03/10/2016

TEST REPORT

Name of Client : Sri. A. Chennareddy, Bengaluru
Project* : Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Physical Properties of Coarse Aggregate (20mm Down)
Period of test : 30/09/2016 to 03/10/2016
Sample Received on : 30/09/2016
Condition of the Sample at the time of receiving : Dry
Samples Supplied to Lab by : Sri. A. Chennareddy, Bengaluru

Size of Aggregates		Weight of aggregates retained on each sieve (gm)	Flakiness Index		Elongation Index	
Passing through IS Sieve (mm)	Retained on Is Sieve (mm)		Thickness Gauge, size (mm)	Weight of aggregates in each fraction passing through thickness gauge (mm)	Length Gauge, size (mm)	Weight of aggregates in each fraction retained on gauge (mm)
63	50	--	33.90	0.00	--	--
50	40	--	27.00	0.00	81.00	--
40	31.5	--	21.50	0.00	64.40	--
31.5	25	--	16.95	0.00	--	--
25	20	--	13.50	0.00	40.50	--
20	16	1400.0	10.80	304.00	32.40	99.00
16	12.5	958.0	8.55	219.00	25.60	25.00
12.5	10	624.0	6.75	101.00	20.20	--
10	6.3	287.0	4.89	68.00	14.70	--
		W1 = 3300.00	A=832.00	B=124.00		

Flakiness Index = 20.96%

Elongation Index=3.7%

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206/2016 **Date: 03/10/2016**

TEST REPORT

Name of Client	: **Sri. A. Chennareddy, Bengaluru**
Project*	: Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division.
Customer's reference	: RDM 161206
Description of Test	: VG 30 Grade Bitumen
Period of test	: 30/09/2016 to 03/10/2016
Sample Received on	: 30/09/2016
Condition of the Sample at the time of receiving	: ---
Samples Supplied to Lab by	: **Sri. A. Chennareddy, Bengaluru**

TABLE NO - I

Sl No	Details	Method	Test Results	Requirements as per IS 73-2013 Specifications
1	Specific Gravity	IS 1202	0.98	0.97 min
2	Penetration at 25 °C, 100G, 5 Sec, Min	IS 1203	62	45 min
3	Ductility value at 25 °C, Min	IS 1208	70	40 cm
4	Flash point (Cleveland open cup), °C, Min	IS 1448	225	220 min
5	Softenng point (R & B), °C	IS 1205	55	47 min
6	Absolute Viscosity at 60 °C, Poises, min.	IS 1206 (Part II)	2570	2400 min
7	Kinematic Viscosity at 135°C, cst, min	IS 1206 (Part III)	360	350 min

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Ref: ACTPL/RDM 161206/2016 **Date: 03/10/2016**

TEST REPORT

Name of Client	: **Sri. A. Chennareddy, Bengaluru**
Project*	: Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division
Customer's reference	: RDM 161206
Description of Test	: Physical Properties of Cement
Period of test	: 30/09/2016 to 03/10/2016
Sample Received on	: 30/09/2016
Condition of the Sample at the time of receiving	: Dry
Samples Supplied to Lab by	: **Sri. A. Chennareddy, Bengaluru**

Test on Cement:

Sl No.	Test to be Conducted	Results	IS : 8112-1980 Stipulation
1	Normal Consistency	29.5 %	Not Specified
2	Initial Setting Time	160 mins	Shall not be less than 30 minutes
3	Final Setting Time	240 mins	Shall not be more than 600 minutes

☑ *Satisfactory*
☐ *Non Satisfactory*

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CIN. : U74900KA2010PTC053574

Ref: ACTPL/RDM 161206/2016

Date: 23/11/2016

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM – 161206
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes.
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru.**

Sl. No	Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
1	Drains	161207/1	15/10/2016	23/10/2016	7 Days	(150X150X148)	22500	299	13.29	14.31
2	Drains	161207/2	25/10/2016	28/10/2016	7 Days	(150X150X149)	22500	345	15.33	
3	Drains	161207/2	15/10/2016	14/11/2016	28 Days	(150X150X149)	22500	477	21.20	21.44
4	Drains	161207/4	25/10/2016	22/11/2016	28 Days	(150X150X148)	22500	488	21.69	

☑ *Satisfactory*
☐ *Non Satisfactory*

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CIN. : U74900KA2010PTC053574

Ref: ACTPL/RDM 161206/2016

Date: 18/11/2016

TEST REPORT

Name of Client : Sri. A. Chennareddy, Bengaluru.
Project* : Comprehensive Development of roads and drains in ward No. 03 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM – 161206
Grade of Concrete : M-30 Grade
Description of Test : Compressive strength of cubes.
Samples Supplied to Lab by : Sri. A. Chennareddy, Bengaluru.

Sl. No	Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
1	CC Pavement	161206/1	18/10/2016	25/10/2016	7 Days	(150X150X148)	22500	389	17.29	17.78
2	CC Pavement	161206/2	21/10/2016	28/10/2016	7 Days	(150X150X149)	22500	411	18.27	
3	CC Pavement	161206/2	18/10/2016	15/11/2016	28 Days	(150X150X149)	22500	699	31.07	30.73
4	CC Pavement	161206/4	21/10/2016	18/11/2016	28 Days	(150X150X148)	22500	684	30.40	

☑ *Satisfactory*
☐ *Non Satisfactory*

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206/2016 **Date: 23/10/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Gradation for BC.
Sample Location : Ward No.3
Total Weight of Sample : 3000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
19	0	0	0.0	100	100
13.2	300	300	10.0	90.0	79-100
9.5	287	587	19.6	80.4	70-88
4.75	360	947	31.6	68.4	53-71
2.36	321	1268	42.3	57.7	42-58
1.18	369	1637	54.6	45.4	34-48
0.6	396	2033	67.8	32.2	26-38
0.3	433	2466	82.2	17.8	18-28
0.15	160	2626	87.5	12.5	12-20
0.075	199	2825	94.2	5.8	4-10

Satisfy the Limits ☑
Does not satisfy the limits
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Ref: ACTPL/RDM 161206/2016 **Date: 23/10/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Gradation for BC.
Sample Location : Ward No.3
Total Weight of Sample : 3000grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
19	0	0	0.0	100	100
13.2	350	350	11.7	88.3	79-100
9.5	300	650	21.7	78.3	70-88
4.75	412	1062	35.4	64.6	53-71
2.36	321	1383	46.1	53.9	42-58
1.18	320	1703	56.8	43.2	34-48
0.6	396	2099	70.0	30.0	26-38
0.3	400	2499	83.3	16.7	18-28
0.15	144	2643	88.1	11.9	12-20
0.075	199	2842	94.7	5.3	4-10

Satisfy the Limits ☑
Does not satisfy the limits
As Furnished by the Customer
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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors. Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India.
Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206/2016 **Date: 23/10/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.3)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2215	2245	2214
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	7254	7098	6972
3	Weight of sand in cone w2 (gm)	404	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5421	5289	5348
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1285	1295	1283
6	Volume of sand in the hole, V=wb / Ys , cm3	951.85	959.26	950.37
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.33	2.34	2.33
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.76	63.21	64.26
10	Dry Weight =	59.54	59.11	61.44
11	Moisture Content =	5.11	5.75	5.19
12	Field Dry Density (g/cc)	2.21	2.21	2.21

Satisfy the Limits ☑
Does not satisfy the limits

**** As Furnished by the Customer***

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206/2016 **Date: 23/10/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.3)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2158	2184	2174
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6984	6954	6838
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5345	5357	5339
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1254	1259	1258
6	Volume of sand in the hole, V=wb / Ys , cm3	928.89	932.59	931.85
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.32	2.34	2.33
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.41	62.87	63.65
10	Dry Weight =	59.98	59.21	59.22
11	Moisture Content =	5.12	5.09	5.24
12	Field Dry Density (g/cc)	2.20	2.22	2.21

Satisfy the Limits ☑
Does not satisfy the limits
**** As Furnished by the Customer***

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206/2016 **Date: 23/10/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for BC
Sample Location : At Site (Ward No.3)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2216	2209	2175
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6954	6924	6926
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5319	5347	5347
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1291	1277	1258
6	Volume of sand in the hole, V=wb / Ys , cm3	956.30	945.93	931.85
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.32	2.34	2.33
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	62.75	63.45	63.58
10	Dry Weight =	58.24	58.98	59.41
11	Moisture Content =	5.13	5.03	5.41
12	Field Dry Density (g/cc)	2.20	2.22	2.21

Satisfy the Limits ☑
Does not satisfy the limits

**** As Furnished by the Customer***

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Ashwini K, BE, M.Tech
Quality Manager

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206/2016 **Date: 24/10/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.3)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2186	2156	2176
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6987	6854	6875
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5432	5234	5396
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1258	1242	1255
6	Volume of sand in the hole, V=wb / Ys , cm3	931.85	920.00	929.63
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.35	2.34	2.34
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.59	64.26	63.72
10	Dry Weight =	58.82	60.28	59.82
11	Moisture Content =	5.21	5.05	5.11
12	Field Dry Density (g/cc)	2.22	2.23	2.22

Satisfy the Limits ☑
Does not satisfy the limits
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For **ALCON CTL TESTING PVT. LTD**

Ashwini K, BE, M.Tech
Quality Manager

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Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors. Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India
Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206/2016 **Date: 22/10/2016**

TEST REPORT

Name of Client : Sri. A. Chennareddy, Bengaluru.
Project* : Comprrehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.3)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2147	2247	2154
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6821	6788	6751
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5367	5494	5441
5	Wt. of sand in the excavated hole =wb , gs(w1-w4 – w2), g	1248	1297	1253
6	Volume of sand in the hole, V=wb / Ys , cm3	924.44	960.74	928.15
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.32	2.34	2.32
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.47	62.86	63.25
10	Dry Weight =	59.84	58.47	59.65
11	Moisture Content =	5.04	5.24	5.04
12	Field Dry Density (g/cc)	2.21	2.22	2.20

Satisfy the Limits ☑
Does not satisfy the limits
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For ALCON CTL TESTING PVT. LTD.

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Quality Manager

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206/2016 **Date: 04/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 03 and 04 in Yelahanka Upanagara Sub Division.
Customer's reference : RDM 161206
Description of Test : Sand Replacement for DBM
Sample Location : At Site (Ward No.3)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2233	2183	2186
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6892	6990	6926
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	4348	5348	5395
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1296	1268	1268
6	Volume of sand in the hole, Vwwb / Ys , cm3	960.00	939.26	939.26
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.33	2.32	2.33
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.59	64.27	63.72
10	Dry Weight =	58.82	60.71	59.82
11	Moisture Content =	5.19	5.05	5.11
12	Field Dry Density (g/cc)	2.21	2.21	2.21

Satisfy the Limits ☑
Does not satisfy the limits
**** As Furnished by the Customer***

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Quality Manager

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161206//2016

BEND TEST :

Sl.No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1	8	4 dia	No cracks observed. Passes the test
2	10	4 dia	No cracks observed. Passes the test
3	12	4 dia	No cracks observed. Passes the test

REBEND TEST :

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1	8	5 dia	No cracks observed. Passes the test
2	10	5 dia	No cracks observed. Passes the test
3	12	7 dia	No cracks observed. Passes the test

Note:

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For ALCON CTL TESTING PVT. LTD.

Ashwini K, BE, M.Tech,
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

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BC

Alcon CTL Testing Pvt. Ltd.
Bitumen Extraction Test
IRC: SP 11-1988 (Apppendix-5) ASTM D2172

Project: **BBMP Yelahanka PACKAGE 2**

Client: A. Chennareddy Location: Ward-3

Technician: Manjunath. L. B.

Date: 8/11/16

Type of Sample: BC

Sl No.	Description	Trial 01	Trial 02	Trial 03
1	Weight of sample Taken –W1	1000	1000	1000
2	Weight Retained after Extraction- W2	939	941	942
3	Weight of Bitumen-W = (W1-W2)=	61	59	58
4	% of bitumen= (W/W1)*100=	6.1	5.9	5.8
	Average % of Bitumen in Samples =	5.9		

Percentage Range of Bitumen in BC: 6%

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PVT. LTD. BANGALORE

Alcon CTL Testing Pvt. Ltd.
Bitumen Extraction Test
IRC: SP 11-1988 (Apppendix-5) ASTM D2172

Project: **BBMP Yelahanka PACKAGE 2**

Client: A. Chennareddy Location: Ward. 3

Technician: Manjunath C.B

Date: 5/11/16

Type of Sample: BC

Sl No.	Description	Trial 01	Trial 02	Trial 03
1	Weight of sample Taken –W1	1000	1000	1000
2	Weight Retained after Extraction- W2	941	940	942
3	Weight of Bitumen-W = (W1-W2)=	59	60	58
4	% of bitumen= (W/W1)*100=	5.9	6.0	5.8
	Average % of Bitumen in Samples =	5.9 %		

Percentage Range of Bitumen in BC: 6%

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

For **ALCON CTL TESTING PVT. LTD.**

Ashwini K. BE. M.Tech
Quality Manager

ALCON CTL TESTING PVT. LTD. BANGALORE

Alcon CTL Testing Pvt. Ltd.

Bitumen Extraction Test

IRC: SP 11-1988 (Apppendix-5) ASTM D2172

Project: **BBMP Yelahanka PACKAGE 2**

Client: A. chennareddy Location: ward - 3

Technician: Manjunath L B

Date: 5/11/6

Type of Sample: BC

Sl No.	Description	Trial 01	Trial 02	Trial 03
1	Weight of sample Taken –W1	1000	1000	1000
2	Weight Retained after Extraction- W2	940	940	939
3	Weight of Bitumen-W = (W1-W2)=	60	60	61
4	% of bitumen= (W/W1)*100=	6.0	6.0	6.1
	Average % of Bitumen in Samples =	6.0 %		

Percentage Range of Bitumen in BC: 6%

Remarks:

Satisfy the Limits ☑

Does not satisfy the limits

For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PVT. LTD. BANGALORE

Alcon CTL Testing Pvt. Ltd.
Bitumen Extraction Test
IRC: SP 11-1988 (Apppendix-5) ASTM D2172

Project: **BBMP Yelahanka PACKAGE 2**

Client: A Chennareddy Location: Ward - 3

Technician: Manjunath L.B

Date: 4/11/16

Type of Sample: BC

Sl No.	Description	Trial 01	Trial 02	Trial 03
1	Weight of sample Taken –W1	1000	1000	1000
2	Weight Retained after Extraction- W2	942	940	939
3	Weight of Bitumen-W = (W1-W2)=	58	60	61
4	% of bitumen= (W/W1)*100=	5.8	6.0	6.1
	Average % of Bitumen in Samples =	6.0.1.		

Percentage Range of Bitumen in DBM: 4.5%

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

For **ALCON CTL TESTING PVT. LTD.**

Ashwini KG BE, M.Tech
Quality Manager

ALCON CTL TESTING PVT. LTD. BANGALORE

Alcon CTL Testing Pvt. Ltd.
Bitumen Extraction Test
IRC: SP 11-1988 (Apppendix-5) ASTM D2172

Project: **BBMP Yelahanka PACKAGE 2**

Client: A. chenareddy Location: ward-3

Technician: Manjunath. L. R

Date: 23/10/16

Type of Sample: BC

Sl No.	Description	Trial 01	Trial 02	Trial 03
1	Weight of sample Taken –W1	1000	1000	1000
2	Weight Retained after Extraction- W2	940	942	939
3	Weight of Bitumen-W = (W1-W2)=	60	58	61
4	% of bitumen= (W/W1)*100=	6.0	5.8	6.1
	Average % of Bitumen in Samples =	6.1		

Percentage Range of Bitumen in BC: 6%

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PVT. LTD. BANGALORE

Alcon CTL Testing Pvt. Ltd.
Bitumen Extraction Test
IRC: SP 11-1988 (Apppendix-5) ASTM D2172

Project: **BBMP Yelahanka PACKAGE 2**

Client: A. Chennareddy Location: ward-03

Technician: Karthika. D

Date: 22/10/11

Type of Sample: DBM

Sl No.	Description	Trial 01	Trial 02	Trial 03
1	Weight of sample Taken –W1	1000	1000	1000
2	Weight Retained after Extraction- W2	955	956	952
3	Weight of Bitumen-W = (W1-W2)=	45	44	48
4	% of bitumen= (W/W1)*100=	4.5	4.4	4.8
	Average % of Bitumen in Samples =	4.567		

Percentage Range of Bitumen in DBM: 4.5%

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE., M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Alcon CTL Testing Pvt. Ltd.
Bitumen Extraction Test
IRC: SP 11-1988 (Apppendix-5) ASTM D2172

Project: **BBMP Yelahanka PACKAGE 2**

Client: A. Chenna Reddy Location: Grand-3

Technician: Kavithika. B

Date: 22/10/11

Type of Sample: DBM

Sl No.	Description	Trial 01	Trial 02	Trial 03
1	Weight of sample Taken –W1	1000	1000	1000
2	Weight Retained after Extraction- W2	953	956	955
3	Weight of Bitumen-W = (W1-W2)=	47	44	45
4	% of bitumen= (W/W1)*100=	4.7	4.4	4.5
	Average % of Bitumen in Samples =	4.53		

Percentage Range of Bitumen in DBM: 4.5%

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Alcon CTL Testing Pvt. Ltd.

Bitumen Extraction Test

IRC: SP 11-1988 (Apppendix-5) ASTM D2172

Project: **BBMP Yelahanka PACKAGE 2**

Client: A. Chenna Reddy Location: Ward - 3

Technician: Karthik . M

Date: 22/10/17

Type of Sample: DBM

Sl No.	Description	Trial 01	Trial 02	Trial 03
1	Weight of sample Taken –W1	1000	1000	100
2	Weight Retained after Extraction- W2	955	956	954
3	Weight of Bitumen-W = (W1-W2)=	45	44	46
4	% of bitumen= (W/W1)*100=	4.5	4.4	4.6
	Average % of Bitumen in Samples =	4.5		

Percentage Range of Bitumen in DBM: 4.5%

Remarks:

Satisfy the Limits ☑

Does not satisfy the limits

For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech

Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE